

# Project Layout calculations



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## Part I: Overview of Business

•Friends Manufacturing, 6 friends from high school have created an outdoor furniture company to make some wood outdoor furniture specializing primarily in Picnic tables.

## Part II: Job Specifics

•Marketing, design, cutlist including time to make each part, manufacturing flow, assembly.

## Part III: Introduce the Problem

•Students will brainstorm projects, research the market and choose one. Then they will have to create a shop layout, order of operations, calculate time to produce each component and a finished project and calculate the cost to make the project and determine if it is profitable.

## Part IV: Background

- Math
- Basic marketing
- Previous shop experience
- Material calculations and pricing.

## Part V: Business Solution

•By brainstorming projects, researching the market and choose one. Then they will create a shop layout, order of operations, calculate time to produce each component and a finished project and calculate the cost to make the project and determine if it is profitable.

## Part VI: Student Solutions

•The students will come up with partial answers or most of the work but I expect that they will not go as in depth as they need to. This will lead to how in depth they could or should go.